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L1: Entry 1 of 2

File: USPT

Oct 20, 1998

US-PAT-NO: 5822833

DOCUMENT-IDENTIFIER: US 5822833 A

TITLE: Apparatus for making nonwoven fabrics having raised portions

DATE-ISSUED: October 20, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
James; William A.	Long Branch	NJ		
Kelly; William G. F.	Middlesex	NJ		

US-CL-CURRENT: 28/105; 28/106

## ABSTRACT:

A topographical support member and a method of forming a topographical support member for use in producing nonwoven fabrics with raised portions, especially intaglio and slub type portions. The topographical support member comprises a body having a top surface including a first micro-sized topographical pattern and a pattern of apertures extending through the body. At least one macro-sized region recessed below the top surface is provided. The micro-sized pattern produces a background portion of the fabric and the macro-sized recessed regions produce the raised portions of the fabric. Multiple levels may be provided in the macro-sized region to produce multiple level raised portions.

2 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw Desc	Image
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☒ 2. Document ID: US 5413849 A

L1: Entry 2 of 2

File: USPT

May 9, 1995

US-PAT-NO: 5413849

DOCUMENT-IDENTIFIER: US 5413849 A

TITLE: Composite elastic nonwoven fabric

DATE-ISSUED: May 9, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Austin; Jared A.	Greer	SC		
Zimmerman, Jr.; G. Stanley	Greenville	SC		

US-CL-CURRENT: 442/329; 28/104, 28/105, 428/326, 428/373, 428/903, 442/361, 442/387,  
442/415, 442/416

**ABSTRACT:**

The invention provides composite elastic nonwoven fabrics and processes of making the same. The composite elastic fabrics of the invention include a plurality of longitudinally extending elastomeric filaments and at least one fibrous web including staple fibers and anchoring fibers entangled with the elastomeric filaments. The anchoring fibers strengthen the attachment of the staple fibers to the elastomeric filaments, so that the entire fibrous mass extends as a unit when the fabric is extended. The resultant product is a coherent, substantially unitary structure encompassing the elastomeric filaments.

31 Claims, 8 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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Term	Documents
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L2: Entry 1 of 1

File: DWPI

Sep 22, 1988

DERWENT-ACC-NO: 1988-310952  
DERWENT-WEEK: 198844  
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TITLE: Polyester fibre, useful for sanitary material, clothing, etc. - is treated by adhering polyester fibre with blocked co-polyether-ester!, heat-treating, processing fibre into web and heat-treating

PRIORITY-DATA: 1987JP-0057436 (March 12, 1987)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 63227874 A</u>	September 22, 1988		004	

INT-CL (IPC): D06M 15/53

ABSTRACTED-PUB-NO: JP 63227874A  
BASIC-ABSTRACT:

Method comprises allowing polyester fibre to adhere with 0.1-1.0 wt.% of blocked copolyether ester, treating the fibre at below 130 deg.C, processing the fibre into web, spun yarn, woven fabric, woven and knitted cloth, etc., and treating the processed fibre at 140-200 deg.C. The blocked polyether ester is produced from terephthalic acid- and glycol-components and has average deg. of polymerisation of 3-10. The glycol component comprises 1 mol. ethyleneglycol and 0.2-1.0 mol. polyethyleneglycol with mol. wt. of 700-30,000.

USE/ADVANTAGE - Polyester fibre treated is useful for sanitary material, clothing, etc. Provides polyester fibre with durable hydrophilic properties.